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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,005	05/02/2001	Gabriel K. Wong	DGMMP001C3	5364

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EXAMINER	
PAN, YUWEN	

ART UNIT	PAPER NUMBER
2682	

DATE MAILED: 09/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/847,005	WONG ET AL.	
	Examiner	Art Unit	
	Yuwen Pan	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *06 May 2005*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *See Continuation Sheet* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *126, 130,132-138, 141,145, 146, 150, 152-158, 161, 165, 166, 170, 172-178, 181,185,186, 190, 192-198, 201, 205, 206-277* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

Continuation of Disposition of Claims: Claims pending in the application are 126,130,132-138,141,145,146,150,152-158,161,165,166,170,172-178,181,185,186,190,192-198,201,205 and 207-277.

Response to Arguments

1. Applicant's arguments filed 5/6/05 have been fully considered but they are not persuasive.

The applicant argues that prior art of record, Crisler reference, doesn't mention about the controller sending a signal telling the requestors what timeslots thy can transmit in. The examiner respectfully disagrees because sending a signal telling the requestors which timeslots to transmit is inherent. Since at least one of the plurality of timeslot is subdivided on a non-periodic basis (see column 2 and lines 59-67), without notifying the requestor which timeslot to transmit, there is no way that the requestor knows when to send the request signal. Thus, the communication unit (requestor) has no way to know which timeslot to transmit without being signaled from the controller. Also, Crisler reference teaches that one of the unit (requestor) would be required to send a new reservation request in a subsequent random access time slot (see column 6 and lines 5-7). Therefore, claims 126, 141, 146, 166, 181, 186 and 201 are anticipated by Crisler under 35 U.S.C 102. Furthermore, the timeslot assigned to the communication unit could be either random access or reserved access in which is assigned exclusively to the communication unit for data transmitting (see column 5 and lines 55-65).

The applicant further argues that data to be transmitted is measured in "timeslots" and no mention is made of measuring a "number of successive packets". Crisler did teach packets transmitted in timeslots (see column 5 and line 6).

The applicant argues that newly added limitation " continuing after receipt of the first request signal transmitted to the communication controller" overcomes Crisler reference. The examiner respectfully disagrees because Crisler reference teaches that the unit not chosen would

then be required to send a new reservation request in a subsequent random time slot (see column 6 and lines 1-8).

2. Applicant's arguments with respect to claims 205-277 have been considered but are moot in view of the new ground(s) of rejection.

DETAILED ACTION

Claim Objections

3. Claim257 is objected to because of the following informalities: should be depended on claim 249. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 126, 130,132-138, 141,145, 146, 150, 152-158, 161, 165, 166, 170, 172-178, 181,185,186, 190, 192-198, 201, 205, 207-277 are rejected under 35 U.S.C. 102(b) as being anticipated by Crisler et al (US005278833A).

Per claim 126, Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request signal to the communication controller (see figure 4, column 6 and lines 55-61);

receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);

transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45).

Per claims 130, Crisler further teaches that the specified amount of data comprises a total number of successive packets (see column 5 and lines 33-45).

Per claims 132, Crisler further teaches that the specific timeslot in which the first node may transmit the first request signal is one of a series of timeslots occurring repeatedly after transmission of the first signal from the communication controller and continuing after receipt of the first request signal transmitted to the communication controller (see column 2 and lines 55-65, column 6 and lines 5-7).

Per claims 133, 134, Crisler further teaches transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which

the second node may transmit a second request signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, wherein the second request signal is received from the second node by the communication controller after transmission of the second signal allocating the at least one timeslot to the first node for transmitting the data, and prior to receipt of all the data transmitted from the first node (see column 5 and line 66-column 6 and line 7).

Per claim 135-137, Crisler further teaches that said first request signal and said data are received by the communication controller via a first channel, and wherein the second signal and the first signal are transmitted to the first node via a second channel, wherein the first channel is provided in a first frequency range, and wherein the second channel is provided in a second frequency range, wherein the first request signal is provided on a separate frequency within the first frequency range than the data (see column 3 and lines 41-60).

Per claims 138, Crisler further teach that communication controller comprises a base station, and wherein said first node comprises a pager device (see column 6 and lines 25-36).

Per claim 206 and 207, the specific timeslot in which the first node may transmit as identified by the first signal is assigned exclusively to the first node by the communication controller, wherein the specific timeslot in which the first node may transmit as identified by the first signal can be assigned to another one of the nodes in the network so that the first request

signal transmitted from the first node may be in contention for the specific timeslot with another one of the nodes (see column 6 and lines 1-7).

Per claims 211 and 212, it is inherent that a user interfaced communication unit comprises a pressure sensitive writing pad and alphanumeric graphic display (see column 3 and lines 15-40).

Per claim 146,Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request signal to the communication controller (see figure 4, column 6 and lines 55-61);

receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);

transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45).

Per claim 150, Crisler further teaches that the specified amount of data comprises a total number of successive packets (see column 5 and lines 33-45).

Per claims 152, Crisler further teaches that the specific timeslot in which the first node may transmit the first request signal is one of a series of timeslots occurring repeatedly after transmission of the first signal from the communication controller and continuing after receipt of the first request signal transmitted to the communication controller (see column 2 and lines 55-65, column 6 and lines 5-7).

Per claims 153, 154, Crisler further teaches transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which the second node may transmit a second request signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, wherein the second request signal is received from the second node by the communication controller after transmission of the second signal allocating the at least one timeslot to the first node for transmitting the data, and prior to receipt of all the data transmitted from the first node (see column 5 and line 66-column 6 and line 7).

Per claims 155-157, Crisler further teaches that said first request signal and said data are received by the communication controller via a first channel, and wherein the second signal and the first signal are transmitted to the first node via a second channel, wherein the first channel is

provided in a first frequency range, and wherein the second channel is provided in a second frequency range, wherein the first request signal is provided on a separate frequency within the first frequency range than the data (see column 3 and lines 41-60).

Per claims 158, Crisler further teach that communication controller comprises a base station, and wherein said first node comprises a pager device (see column 6 and lines 25-36).

Per claim 224 and 225, the specific timeslot in which the first node may transmit as identified by the first signal is assigned exclusively to the first node by the communication controller, wherein the specific timeslot in which the first node may transmit as identified by the first signal can be assigned to another one of the nodes in the network so that the first request signal transmitted from the first node may be in contention for the specific timeslot with another one of the nodes (see column 6 and lines 1-7).

Per claims 229 and 230, it is inherent that a user interfaced communication unit comprises a pressure sensitive writing pad and alphanumeric graphic display (see column 3 and lines 15-40).

Per claim 166, Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request signal to the communication controller (see figure 4, column 6 and lines 55-61);

receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);

transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45).

Per claims 170, Crisler further teaches that the specified amount of data comprises a total number of successive packets (see column 5 and lines 33-45).

Per claims 172, Crisler further teaches that the specific timeslot in which the first node may transmit the first request signal is one of a series of timeslots occurring repeatedly after transmission of the first signal from the communication controller and continuing after receipt of the first request signal transmitted to the communication controller (see column 2 and lines 55-65, column 6 and lines 5-7).

Per claims 173, 174, Crisler further teaches transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which

the second node may transmit a second request signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, wherein the second request signal is received from the second node by the communication controller after transmission of the second signal allocating the at least one timeslot to the first node for transmitting the data, and prior to receipt of all the data transmitted from the first node (see column 5 and line 66-column 6 and line 7).

Per claim 175-177, Crisler further teaches that said first request signal and said data are received by the communication controller via a first channel, and wherein the second signal and the first signal are transmitted to the first node via a second channel, wherein the first channel is provided in a first frequency range, and wherein the second channel is provided in a second frequency range, wherein the first request signal is provided on a separate frequency within the first frequency range than the data (see column 3 and lines 41-60).

Per claims 178, Crisler further teach that communication controller comprises a base station, and wherein said first node comprises a pager device (see column 6 and lines 25-36).

Per claim 242 and 243, the specific timeslot in which the first node may transmit as identified by the first signal is assigned exclusively to the first node by the communication controller, wherein the specific timeslot in which the first node may transmit as identified by the first signal can be assigned to another one of the nodes in the network so that the first request

signal transmitted from the first node may be in contention for the specific timeslot with another one of the nodes (see column 6 and lines 1-7).

Per claims 247 and 248, it is inherent that a user interfaced communication unit comprises a pressure sensitive writing pad and alphanumeric graphic display (see column 3 and lines 15-40).

Per claim 186, Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request signal to the communication controller (see figure 4, column 6 and lines 55-61);

receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);

transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45).

Per claims 190, Crisler further teaches that the specified amount of data comprises a total number of successive packets (see column 5 and lines 33-45).

Per claims 192, Crisler further teaches that the specific timeslot in which the first node may transmit the first request signal is one of a series of timeslots occurring repeatedly after transmission of the first signal from the communication controller and continuing after receipt of the first request signal transmitted to the communication controller (see column 2 and lines 55-65, column 6 and lines 5-7).

Per claims 193, 194, Crisler further teaches transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which the second node may transmit a second request signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, wherein the second request signal is received from the second node by the communication controller after transmission of the second signal allocating the at least one timeslot to the first node for transmitting the data, and prior to receipt of all the data transmitted from the first node (see column 5 and line 66-column 6 and line 7).

Per claim 195-197, Crisler further teaches that said first request signal and said data are received by the communication controller via a first channel, and wherein the second signal and the first signal are transmitted to the first node via a second channel, wherein the first channel is

provided in a first frequency range, and wherein the second channel is provided in a second frequency range, wherein the first request signal is provided on a separate frequency within the first frequency range than the data (see column 3 and lines 41-60).

Per claim 198, Crisler further teach that communication controller comprises a base station, and wherein said first node comprises a pager device (see column 6 and lines 25-36).

Per claim 260and 261, the specific timeslot in which the first node may transmit as identified by the first signal is assigned exclusively to the first node by the communication controller, wherein the specific timeslot in which the first node may transmit as identified by the first signal can be assigned to another one of the nodes in the network so that the first request signal transmitted from the first node may be in contention for the specific timeslot with another one of the nodes (see column 6 and lines 1-7).

Per claims 265 and 266, it is inherent that a user interfaced communication unit comprises a pressure sensitive writing pad and alphanumeric graphic display (see column 3 and lines 15-40).

Per claims 141, 161, 181, and 201, Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request

signal to the communication controller (see figure 4, column 6 and lines 55-61), wherein the specific timeslot is assigned exclusively to the first node by a signal sent from the communication controller to the first node, and wherein the specific timeslot is one of a series of timeslots where the network nodes can transmit requests, the series of timeslots occurring repeatedly without being disabled during operation of the communication controller (see column 5 and lines 55-column 6 and lines 7);

receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);

transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45).

Per claims, 145, 165, 185, and 205, Crisler further teaches transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which the second node may transmit a second request signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, wherein the second request signal is

received from the second node by the communication controller after transmission of the second signal allocating the at least one timeslot to the first node for transmitting the data, and prior to receipt of all the data transmitted from the first node (see column 5 and line 66-column 6 and line 7).

Per claim 213, 231, 249, and 267, Crisler discloses a method and apparatus (see figure 1) of communicating data comprising: transmitting a first signal from a communication controller to at least one network node including a first node, the first signal including information relating to a specific timeslot in which the first node may transmit a first request signal to the communication controller (see figure 4, column 6 and lines 55-61);
receiving the first request signal transmitted from the first node to the communication controller in response to the first signal, said first request signal including a request for allocation of time for transmitting a specified amount of data from the first node to the communication controller (see column 5 and lines 18-27);
transmitting a second signal from the communication controller to the first node in response to the first request signal, said second signal allocating at least one timeslot to the first node for transmitting the data to the communication controller; and receiving the data transmitted from the first node to the communication controller in response to the second signal (see column 5 and lines 25-45),
transmitting a third signal from the communication controller to at least one network node including a second node (see figure 1 and item 101), the third signal including information relating to a second specific timeslot in which the second node may transmit a second request

signal to the communication controller; and receiving the second request signal transmitted from the second node to the communication controller in response to the third signal, (see column 5 and line 66-column 6 and line 7).

Per claims 208-210, 244-246, 262-264, and 214-217, 232-235, 250-253, 268-271, wherein the at least one timeslot in which the first node may transmit the first request signal is at least one of a series of timeslots provided on a common channel where the network nodes can transmit random access requests, the series of timeslots occurring repeatedly after transmission of the first signal from the communication controller and continuing without being disabled during operation of the communication controller, wherein the at least one timeslot in which the first node may transmit the second request signal is at least one of a series of timeslots provided on a dedicated channel where the network nodes transmit requests in exclusively assigned timeslots, the series of timeslots occurring repeatedly after transmission of the second signal from the communication controller and continuing without being disabled during operation of the communication controller (see column 5 and line 46-column 6 and line 7).

Per claims 218, 236, 254, 272, Crisler further teaches that the specified amount of data comprises a total number of successive packets (see column 5 and lines 33-45).

Per claims 219, 237, 255, 273, that said first request signal and said data are received by the communication controller via a first channel, and wherein the second signal and the first signal are transmitted to the first node via a second channel (see column 3 and lines 41-60).

Per claims 220, 238, 256, 274, Crisler further teaches the communication controller transmits to the first node information related to a frequency the first node is assigned to transmit the second request signal to the communication controller (see column 3 and lines 41-60).

Per claims 221, 239, 257, 275, Crisler further teaches the communication controller transmits to the first node information related to a channel within the frequency that the first node is assigned to transmit the second request signal (see column 3 and lines 41-60).

Per claims 222, 223, 240, 241, 258, 259, 276, 277, it is inherent that a user interfaced communication unit comprises a pressure sensitive writing pad and alphanumeric graphic display (see column 3 and lines 15-40).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuwen Pan whose telephone number is 571-272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro can be reached on 571-272-7876. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yuwen Pan
August 23, 2005

NICK CORSARO
SUPERVISORY EXAMINER